

64747

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PCB Air Samples from the New Bedford Area

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The PCB samples were extracted with hexane and cleaned up on a micro-florisil column. Two back-up florisil traps were used, at the landfill site and downwind of the Aerovox plant to check for PCB breakthrough on the sample column. None was found at the concentration range of 30-400 ng/m³. A spike of 193 ng of PCB 1016 was added to sample #6, dried and extracted with the unknowns. The recovery was 93%. Two blanks were included in the analysis.

Location	Test #	1016/1242 (ng/m ³)	PCB Concentration 1254 (ng/m ³)	Total (ng/m ³)
Landfill - upwind	4	J27	ND	J27*
Landfill site	8	334	33	367
Landfill site				
back-up to #8	9	ND	ND	ND
Landfill site	2	703	23	726
Landfill-downwind	3	18	ND	18**
Landfill-downwind	7	21	ND	21**
Aerovox-upwind	5	41	ND	41
Aerovox-downwind	11	301	9	310
Aerovox-downwind				
backup to #11	10	ND	ND	ND
Aerovox-downwind	1	259	9	268
Cornell Dubher-upwind	12	18	ND	18
Cornell Dubher-				
downwind	14	743	24	767
Cornell Dubher-				
downwind	13	824	38	862

*Value for #4 determined by subtraction of known quantity of PCB added in laboratory from total concentration

J=Approximate value

**These values were not a clear PCB pattern and represent a "background" which may or may not be PCB.

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